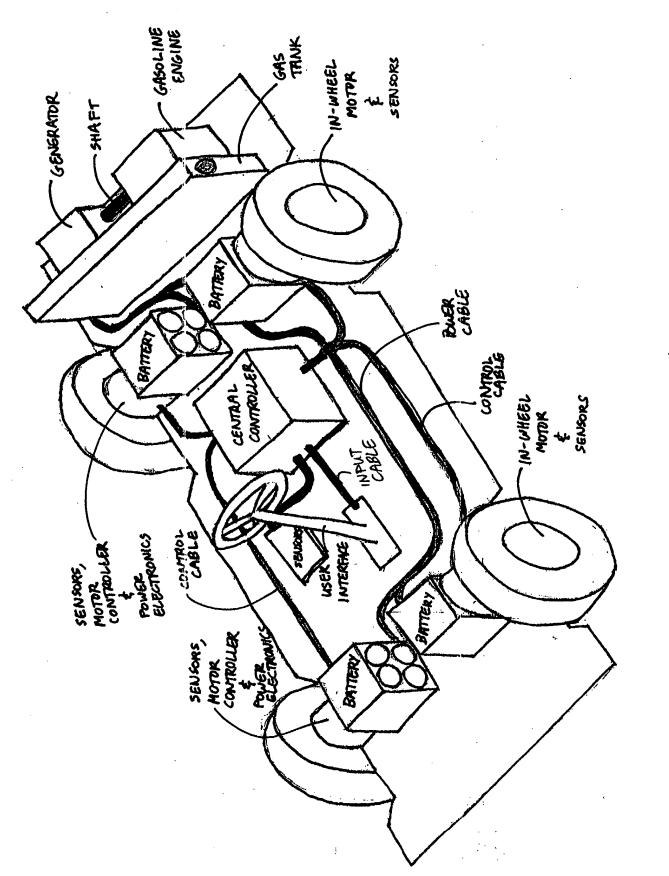
Docket No.: 544092000122

App No.: Not Yet Assigned [Inventor: Boris MASLOV et al. e: AN ADAPTIVE ELECTRIC CAR



Figure

App No.: Not Yet Assigned Inventor: Boris MASLOV et al. e: AN ADAPTIVE ELECTRIC CAR

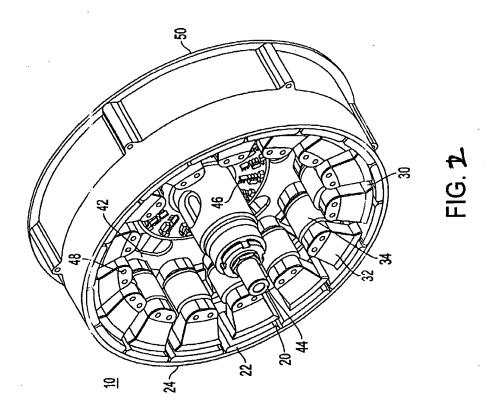
Docket No.: 544092000122

U.S. Patent

Sep. 9, 2003

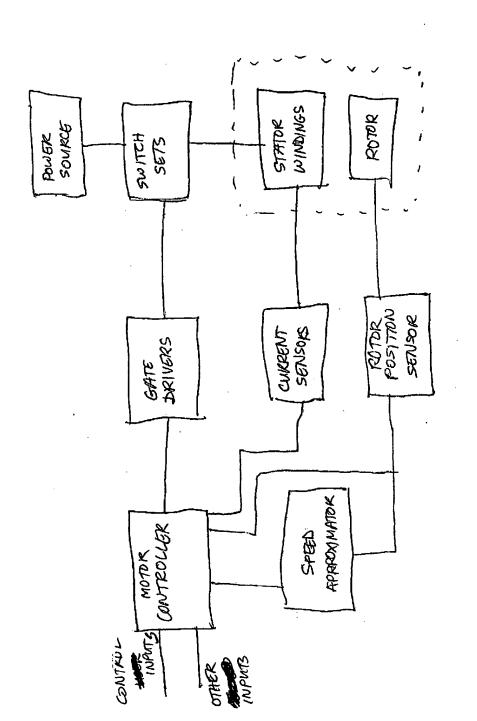
Sheet 1 of 9

US 6,617,746 B1



App No.: Not Yet Assigned [Inventor: Boris MASLOV et al.
Title: AN ADAPTIVE ELECTRIC CAR

Docket No.: 544092000122



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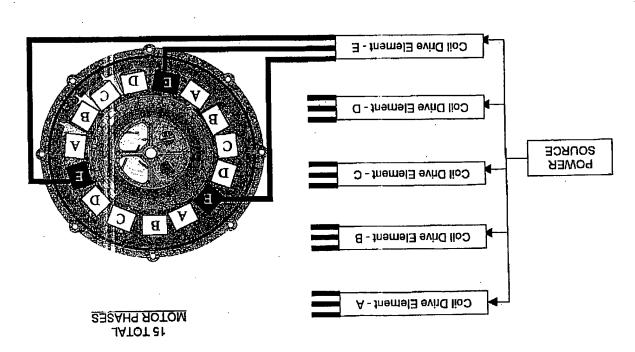
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Docket No.: 544092000122

App No.: Not Yet Assigned Inventor: Boris MASLOV et al.

Inventor: Bons MASLOV et al.
Title: AN ADAPTIVE ELECTRIC CAR

WULTI-COIL DRIVERS 5 COMMON



15 MECHANICAL PHASES

3 PARALLEL OUTPUTS PER ELEMENT



<u>~</u>

App No.: Not Yet Assigned Inventor: Boris MASLOV et al. Title: AN ADAPTIVE ELECTRIC CAR

Docket No.: 544092000122

CONTROL

App No.: Not Yet Assigned Inventor: Boris MASLOV et al Title: AN ADAPTIVE ELECTRIC CAR

Sounds Burce SOURCE O SIGNAL る地域を見る CONTROLLER CONVERSE **ENERGY** CONVUERTER **CONVECTOR** MECHANICAL MOCHANICAL Bower ASK O

FIGURE \$6

App No.: Not Yet Assigned Inventor: Boris MASLOV et al.
Title: AN ADAPTIVE ELECTRIC CAR PERFORMANCE ALGORITHMS FAULT WORKAROWDS WEAK WORKAROWDS ADAPTATION & OPTIMIZATION (POR EACH MOTOR SYSTEM) KNOWLEDGE BASE OUTPUTS TO CONTROL - Waveform profile - Regenerative bratility - Wheel votation dive 55E97 - Motor tourne - Motor speed SURVEPORM ל אינו בל ROTOR WORKAROUNDS CONTROL (FOR VEHICLE) ADAPTATION & OPTIMIZATION Docket No.: 544092000122 FAWAT - External lister - Heating and veutlation - Air condition - Generator OUTPUTS ALGORITHMS H ANDUMO DISPLAY TO DRIVER - Free remaining - Navigation into - Vehide speed - Distance travde PERFORMANCE ALGORITHMS OUTPUTS SPECIFICATIONS CONTROLLER - Swith contrals Figure **GENTRAL** VEHICLE - Stewing - Acceleration DRIVER INPUTS - Braking PROFILES JRIVING (- Three-dimensional (FOR VEHICLE) vedous (yaw) - Acceleration - Vehicle speed SENSOR INPUTS (INFORMATION MAVIGATION (FOR EACH MOTOR) - Matou rator postik - Fault detection - wheel retation SENSOR INPUTS - Baden Current - Wheel slip i.

App No.: Not Yet Assigned Inventor: Boris MASLOV et al. ...e: AN ADAPTIVE ELECTRIC CAR Docket No.: 544092000122

